Figure 1

100

20a'

20a

20a"

Computing Application 180

Computing Application Processing and Storage Area 180a

Comp. Control Repos. 180a(1)

Comp. Contorl Engine 180a(2)

Mfg. Info 180a(3)

180b'

Computing Application Display 180b

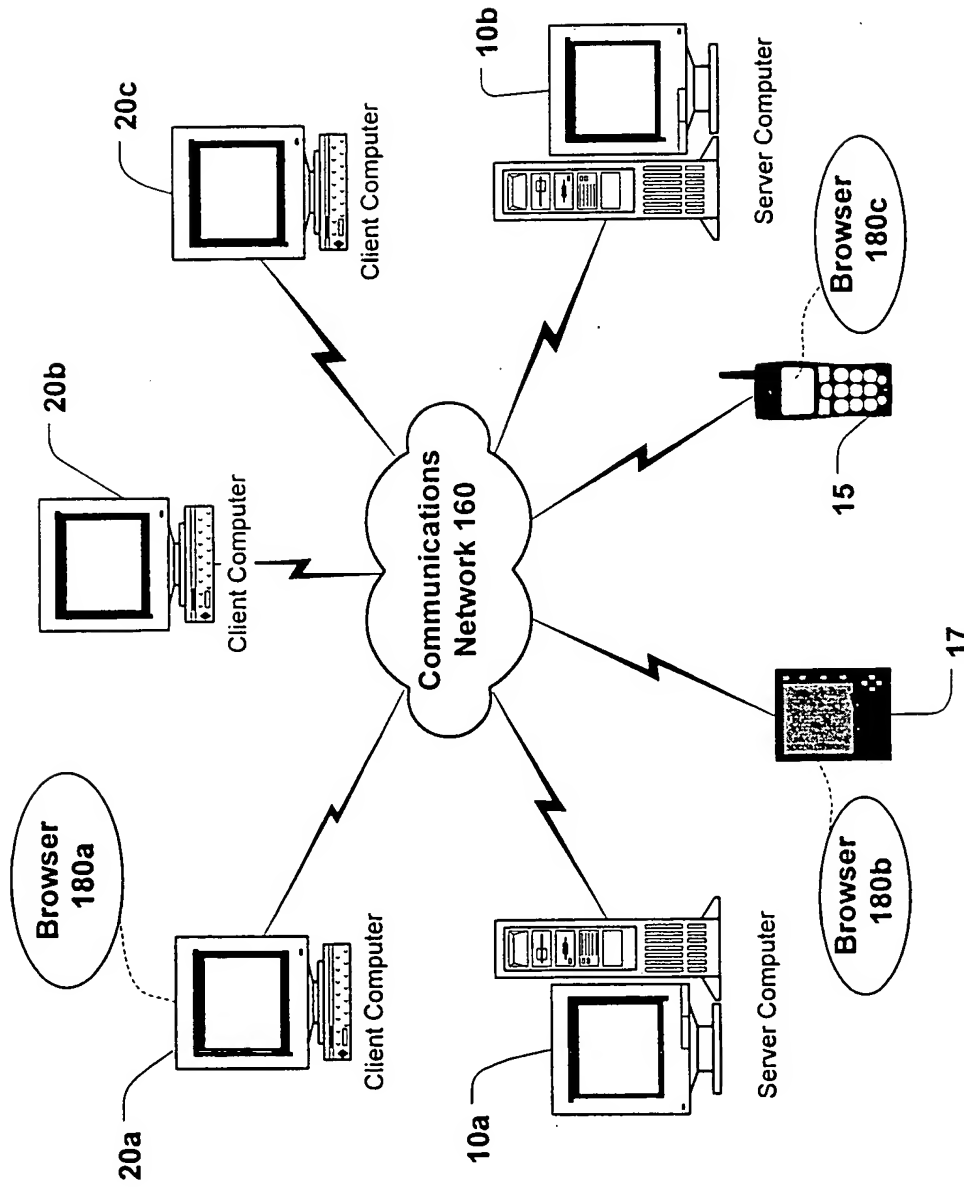**Figure 1a**

Figure 1b

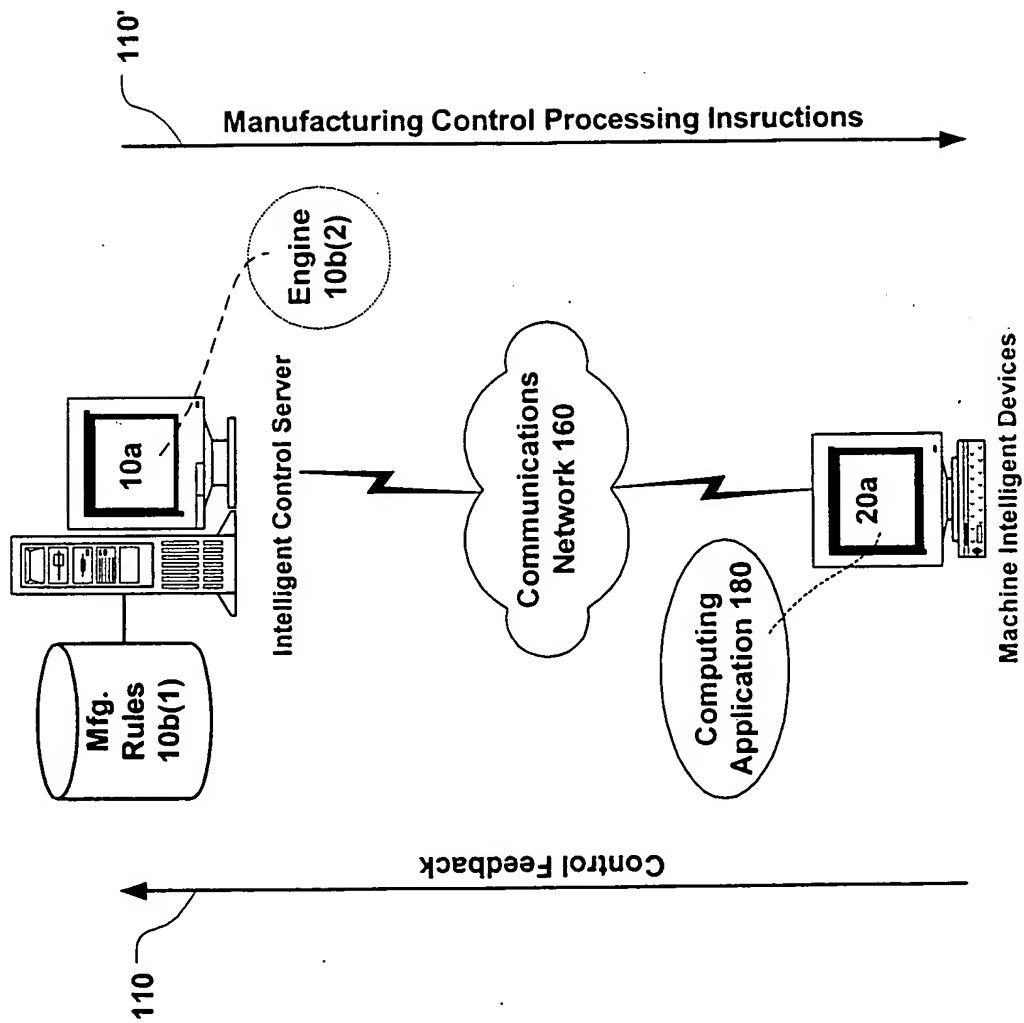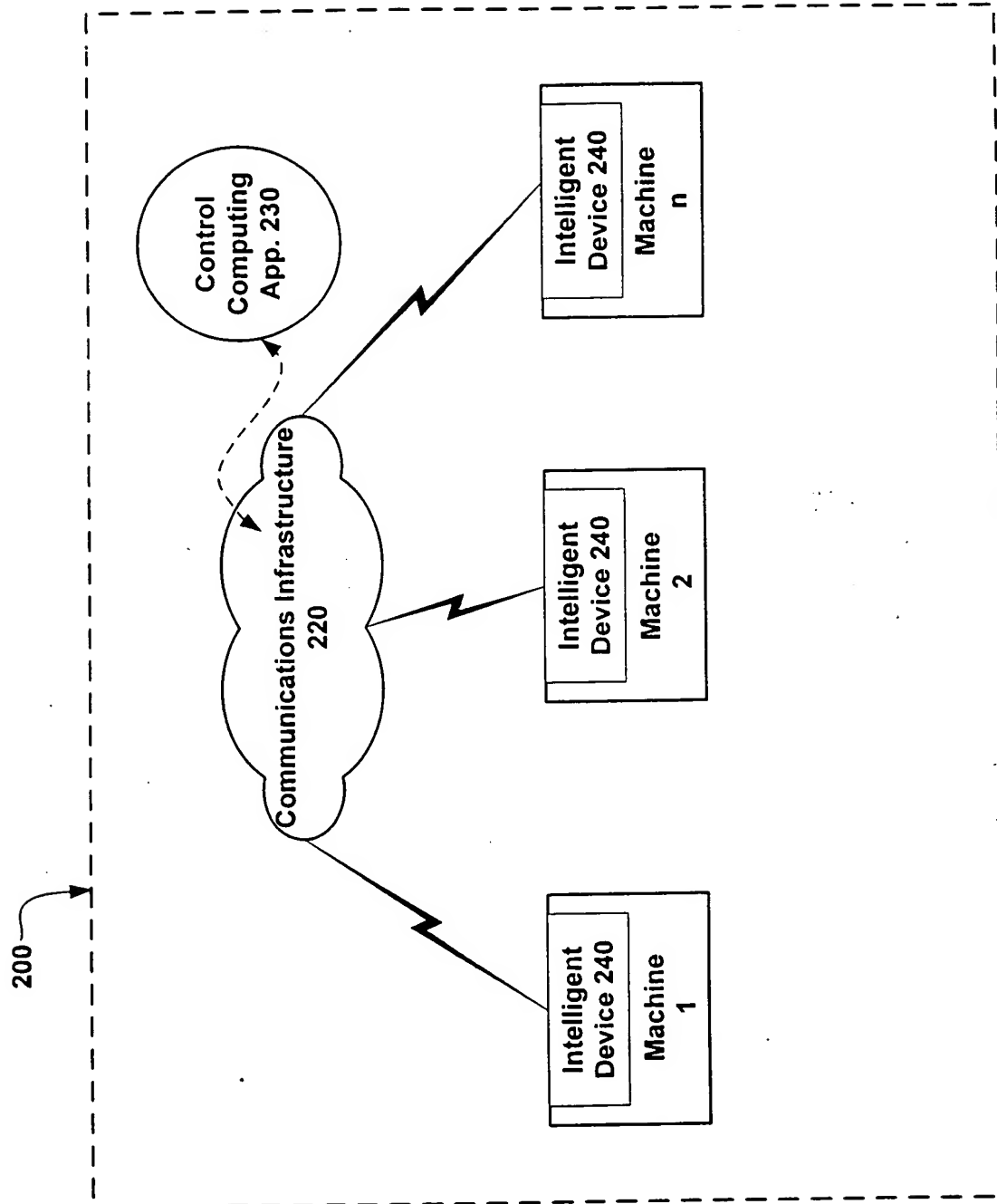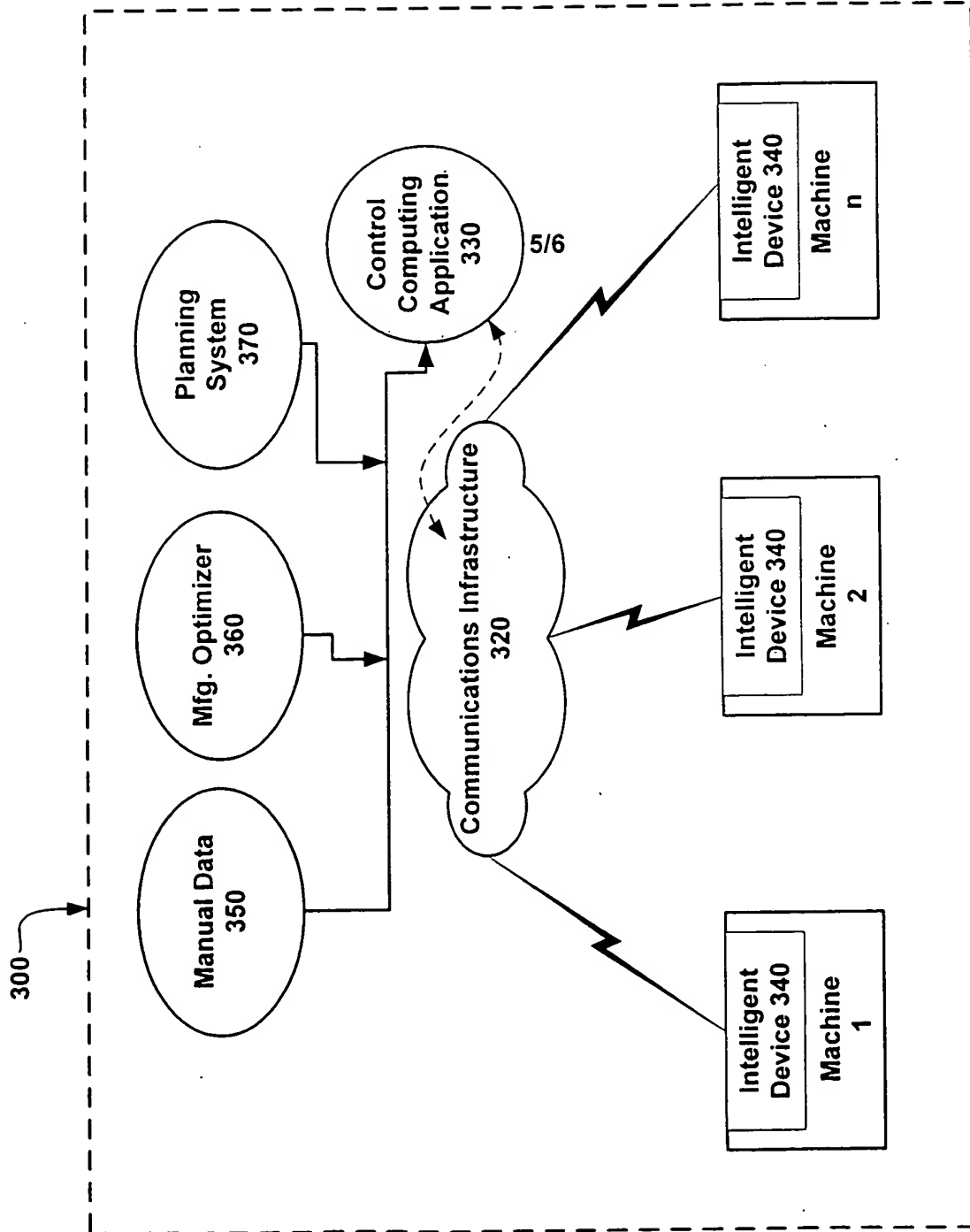Control
Computing
App. 230

Communications Infrastructure
220

Intelligent
Device 240

Machine
n

Intelligent
Device 240

Machine
2

Intelligent
Device 240

Machine
1

200

Figure 2

Figure 3

```
┌─────────────────────┐
│   Define Mfgr. Rules │
│        410           │
└─────────────────────┘
           │
           ▼
┌─────────────────────┐
│  Communicate Rules   │
│     to ID 420        │
└─────────────────────┘
           │
           ▼
┌─────────────────────┐
│  Initiate Control Over│
│    Machines 430      │
└─────────────────────┘
           │
           ▼
┌─────────────────────┐
│   Execute Rules 440  │
└─────────────────────┘
           │
           ▼
         ╱─────╲
        ╱Additional╲      N
       ╱Instructions ?╲──────────┐
       ╲    450     ╱            │
        ╲─────────╱             │
           │ Y                  │
           ▼                    │
┌─────────────────────┐         │
│   Obtain Additional  │         │
│  Control Instructions│         │
│        460           │         │
└─────────────────────┘         │
           │                    │
           ▼                    │
┌─────────────────────┐         │
│    Communicate       │         │
│ Instructions to IDs 470│        │
└─────────────────────┘         │
           │                    │
           ▼                    │
     ╭─────────────────╮        │
     │ Execute & Complete│◄──────┘
     │ Rules and Instructions│
     │   Instructions    │
     │       480         │
     ╰─────────────────╯
```

Figure 4